



C & K Components  
Division Spatiale  
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**estec**

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For the attention of Mr O. Masson

**Your ref.**                      **Cert. 141P**  
**Our ref.**                        **TEC-QES/HHE/171109**

**Noordwijk, 24 November 2017**  
**Subject: ESCC Qualification Certificate for Connectors**

Dear Sir,

We are pleased to inform you that, based on a review of the Lot Acceptance Test Report by the ESCC Executive, your plant in Dole remains qualified for the supply of Connectors, Electrical, Microminiature, Crimp Contacts, Single-in-Line, based on Type MTB.

Please note that, as specified in the relevant Certificate, the qualification status of the subject devices will be valid until September 2019.

If after this date, you wish to maintain the qualification status, you are required to notify your Qualifying Space Agency (ie., CNES, Toulouse) by letter, copying the ESCC Executive Secretariat (address above, Attention TEC-QES), 2 months before the actual expiry date. At the same time, you should then provide your Qualifying Space Agency with the following documents:

- Certificate of Compliance.
- List of agreed changes – if any – in manufacturing processes and/or materials used.
- List of hi-rel components supplied by your above mentioned plant during the preceding period (including the identification of the procurement testing level).
- Test evidence.

Upon receipt of these items and after investigation into your customers' experience regarding delivery times and quality of components supplied for European space projects, your Qualifying Space Agency will forward to the ESCC Executive an application for extension of Qualification Approval.

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The ESCC Executive will:

- (a) if its findings are satisfactory immediately extend the qualification period by 2 years
- (b) if the situation is not satisfactory define the actions required to achieve a maintenance of qualification status.

Please be reminded that it is not permitted to mark components for space application with the ESA symbol after the qualification validity period has expired.

Yours faithfully,

A handwritten signature in blue ink, appearing to read 'B. Schade'.

B. Schade  
Head of the Product Assurance  
and Safety Department

Encl.

cc.

J.P. Bussenot, CNES, Toulouse  
A. Pesce, ESA, TEC-QES

CONNECTORS, ELECTRICAL, MICROMINIATURE, CRIMP CONTACT, SINGLE-IN-LINE, BASED ON TYPE MTB				141P
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3401 Detail ESCC 3401/031	C&K COMPONENTS Dole France	Qualification	CNES	Oct 1986
Remarks 3401/029 termination types GMR7580 and CMR7590 are NOT qualified				
<p>Qualified range: 3401/031: 01 and 02</p> <p>Insulator sizes: 5 through 50 contacts,</p> <p>Termination types: AWG 25: Uninsulated rigid wire. Bent PCB - Max rated: 2.5 A            AWG 26: ESCC 390101302 - Max rated: 2.5 A            AWG 28: ESCC 390101301 - Max rated: 1.5 A            Solder bucket – Max rated 2.5 A            Non removable crimp contacts</p> <p>Operating Temperature Range (°C): -55 to +125</p>				



**european space agency**  
**agence spatiale européenne**

## **Certificate of Qualification No. 141P**

**This is to certify that C&K Components, Dole, France has been qualified by ESA for the supply of Connectors, Electrical, Microminiature, Crimp Contacts, Single-in-Line, based on Type MTB for use in ESA space programmes, according to ESCC Generic Specification 3401 and associated Detail Specification 3401/031 as recommended by the Space Components Steering Board.**

**This certificate is valid until September 2019.**

**Head of the Product Assurance  
and Safety Department**

**Date**

**24 November 2017**